

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:** Please amend the claims as follows:

We claim:

**Claim 1. (Cancelled).**

**Claim 2. (Cancelled).**

**Claim 3. (Cancelled).**

**Claim 4. (Currently Amended)**                      An isolated polynucleotide, ~~comprising one of the following nucleotide sequences~~ which is:

(a) a polynucleotide comprising nucleotides 1-1600 of SEQ. ID NO.: 1;

(b) a polynucleotide comprising nucleotides 36-1346 of SEQ. ID NO.: 1;

(c) a polynucleotide comprising nucleotides 36-1262 of SEQ. ID NO.: 1;

(d) a polynucleotide comprising nucleotides 39-1346 of SEQ. ID NO.: 1;

(e) a polynucleotide comprising nucleotides 39-1262 of SEQ. ID NO.: 1;

(f) a polynucleotide comprising nucleotides 99-1346 of SEQ. ID NO.: 1; or

(g) a polynucleotide comprising nucleotides 99-1262 of SEQ. ID NO.: 1,

or is complementary to or is the RNA equivalent of one of said polynucleotides.

**Claim 5. (Cancelled).**

**Claim 6. (Cancelled).**

**Claim 7. (Cancelled).**

**Claim 8. (Cancelled).**

**Claim 9. (Cancelled).**

**Claim 10. (Cancelled).**

**Claim 11. (Cancelled).**

**Claim 12. (Cancelled).**

**Claim 13. (Currently Amended)**                      Process A process for detecting diagnosing

~~polycythaemia vera, characterized in that the~~ comprising detecting at least one polycythaemia rubra vera-1 (PRV-1) polynucleotide is detected using an RT-PCR method or a blotting method of claim 4.

**Claim 14. (Cancelled).**

**Claim 15. (Cancelled).**

**Claim 16. (Withdrawn, Currently Amended)** ~~Drug,~~ A pharmaceutical preparation comprising a polynucleotide according to claim 4 and at least one pharmaceutically tolerated excipient.

**Claim 17. (Cancelled).**

**Claim 18. (Cancelled).**

**Claim 19. (Cancelled).**

**Claim 20. (Cancelled).**

**Claim 21. (Currently Amended)** ~~Kit~~ A kit ~~for detecting polycythaemia vera,~~ comprising

(1) a PCR primer against at least one polynucleotide according to of claim 4, or a fragment thereof

and

(2) a composition suitable for implementing detection reactions.

**Claim 22. (Currently Amended)** ~~Kit~~ A kit ~~for detecting disturbances of the haematopoietic system,~~ comprising

(1) at least one polynucleotide according to claim 4, or a fragment thereof, wherein said fragment hybridizes to polycythaemia rubra vera-1 (PRV-1) polynucleotide

and

(2) a composition suitable for implementing detection reactions.

**Claim 23. (Cancelled)**

**Claim 24. (Currently Amended)**      ~~Kit A kit for detecting polycythaemia vera,~~  
comprising

- (1)    ~~at least one polypeptide according to claim 1~~ selected from the group consisting of:  
      (a) a polypeptide comprising amino acids 1-437 of SEQ. ID NO.: 2;  
      (b) a polypeptide comprising amino acids 1-409 of SEQ. ID NO.: 2;  
      (c) a polypeptide comprising amino acids 22-437 of SEQ. ID NO.: 2; and  
      (d) a polypeptide comprising amino acids 22-409 of SEQ. ID NO.: 2.

and

- (2)    a composition suitable for implementing detection reactions.

**Claim 25. (Cancelled).**

**Claim 26. (Cancelled).**

**Claim 27. (Cancelled).**

**Claim 28. (Cancelled).**

**Claim 29. (Cancelled).**

**Claim 30. (New).**      A process for diagnosing polycythaemia vera comprising detecting the presence of PRV-1 polynucleotide with a kit of claim 21.

**Claim 31. (New).**      A process for diagnosing polycythaemia vera comprising detecting a PRV-1 polynucleotide with a kit of claim 22.

**Claim 32. (New).**      A process for diagnosing polycythaemia vera comprising detecting the expression of a PRV-1 polynucleotide and comparing said expression to a reference standard, wherein said reference standard comprises a kit of claim 24.

**Claim 33. (New).**      A process for diagnosing disturbances of the hematopoietic system comprising detecting at least one polycythaemia rubra vera-1 (PRV-1) polynucleotide of claim 4.

**Claim 34. (New).** A process for diagnosing disturbances of the hematopoietic system comprising detecting the presence of PRV-1 polynucleotide with a kit of claim 21.

**Claim 35. (New).** A process for diagnosing disturbances of the hematopoietic system comprising detecting the presence of PRV-1 polynucleotide with a kit of claim 22.

**Claim 36. (New).** A process for diagnosing disturbances of the hematopoietic system comprising detecting the expression of a PRV-1 polynucleotide and comparing said expression to a reference standard, wherein said reference standard comprises a kit of claim 24.

**Claim 37. (New).** A process of claim 13 wherein said detection comprises a PCR method or a blotting method.

**Claim 38. (New).** A process of claim 33 wherein said detection comprises a PCR method or a blotting method.